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by the simple structure.

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(54) LASER BEAM WELDING METHOD

(57) Abstract:

PURPOSE: To simplify the structure of equipment when at least either of preheating and postheating is carried out by using a laser beam for welding and to reduce the cost.

CONSTITUTION: A rack 8 extended along an optical axis of the laser beam is fixed on the side of a welding torch 4 of a laser beam head 1, a gear 11 driven by a driving motor unit 9 is meshed with the rack 8 and the gear 11 is rotated forward and backward, by which the welding torch 4 is made displaceable in the optical axis direction. The position of a focus of the laser beam 7 is located above and a weld zone can be irradiated with the laser beam in the wide range by keeping the welding torch 4 at a specified distance above the weld zone of strips 2 and 3 at the time of preheating and postheating. Consequently, the need to provide a driving mechanism to scan the laser beam is eliminated and the cost of the laser beam welding equipment capable of carrying out preheating and postheating can be reduced

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